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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	DEC 01	ChemPort single article sales feature unavailable
NEWS	3	JUN 01	CAS REGISTRY Source of Registration (SR) searching enhanced on STN
NEWS	4	JUN 26	NUTRACEUT and PHARMAML no longer updated
NEWS	5	JUN 29	IMSCOPROFILE now reloaded monthly
NEWS	6	JUN 29	EPFULL adds Simultaneous Left and Right Truncation (SLART) to AB, MCLM, and TI fields
NEWS	7	JUL 09	PATDPAFULL adds Simultaneous Left and Right Truncation (SLART) to AB, CLM, MCLM, and TI fields
NEWS	8	JUL 14	USGENE enhances coverage of patent sequence location (PSL) data
NEWS	9	JUL 27	CA/CAPLUS enhanced with new citing references
NEWS	10	JUL 16	GBFULL adds patent backfile data to 1855
NEWS	11	JUL 21	USGENE adds bibliographic and sequence information
NEWS	12	JUL 28	EPFULL adds first-page images and applicant-cited references
NEWS	13	JUL 28	INPADOCDB and INPAFAMDB add Russian legal status data
NEWS	14	AUG 08	Improve STN by completing a survey and be entered to win a gift card
NEWS	15	AUG 10	Time limit for inactive STN sessions doubles to 40 minutes

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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*
* See NEWS 14 for details or go directly to the survey at: *
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 * * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:20:38 ON 11 AUG 2009

```
=> file reg
COST IN U.S. DOLLARS          SINCE FILE          TOTAL
                               ENTRY          SESSION
FULL ESTIMATED COST          0.22          0.22
```

FILE 'REGISTRY' ENTERED AT 12:20:56 ON 11 AUG 2009
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STRUCTURE FILE UPDATES: 10 AUG 2009 HIGHEST RN 1173881-48-5
 DICTIONARY FILE UPDATES: 10 AUG 2009 HIGHEST RN 1173881-48-5

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
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<http://www.cas.org/support/stngen/stndoc/properties.html>

```
=> s (1-1.05)/li and (0.92-.098)/ni and (0.005-0.3_/mg and 2/o
UNMATCHED LEFT PARENTHESIS 'AND (0.005-0.3_'
The number of right parentheses in a query must be equal to the
number of left parentheses.
```

```
=> s (1-1.05)/li and (0.92-.098)/ni and (0.005-0.3)/mg and 2/o
INCONSISTENT NUMERIC RANGE EXPRESSION '0.92-.098'
The lower limit in a numeric range must be given before the upper
limit. For example, '5-1/C' is not valid. The correct form is
'1-5/C'.
```

```
=> s (1-1.05)/li and (0.92-.98)/ni and (0.005-0.3)/mg and 2/o
116588 (1-1.05)/LI
2247 (0.92-.98)/NI
22070 (0.005-0.3)/MG
9590248 2/O
L1 33 (1-1.05)/LI AND (0.92-.98)/NI AND (0.005-0.3)/MG AND 2/O
```

```
=> file caplus
COST IN U.S. DOLLARS          SINCE FILE          TOTAL
                               ENTRY          SESSION
FULL ESTIMATED COST          23.32          23.54
```

FILE 'CAPLUS' ENTERED AT 12:23:08 ON 11 AUG 2009
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FILE COVERS 1907 - 11 Aug 2009 VOL 151 ISS 7
FILE LAST UPDATED: 10 Aug 2009 (20090810/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

=> s l1

L2 45 L1

=> s l2 and (battery or cathode)

160701 BATTERY

124488 BATTERIES

174952 BATTERY

(BATTERY OR BATTERIES)

214055 CATHODE

89031 CATHODES

237194 CATHODE

(CATHODE OR CATHODES)

L3 42 L2 AND (BATTERY OR CATHODE)

=> d l3 ti pn

L3 ANSWER 1 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Method for producing cathode for nonaqueous electrolyte secondary battery and method for producing nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE
------------	------	------

PI US 20090119908	A1	20090514
JP 2009140909	A	20090625
KR 2009049554	A	20090518
CN 101436660	A	20090520

=> d 13 1-42 ti pn

L3 ANSWER 1 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Method for producing cathode for nonaqueous electrolyte secondary battery and method for producing nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE
------------	------	------

PI	US 20090119908	A1	20090514
	JP 2009140909	A	20090625
	KR 2009049554	A	20090518
	CN 101436660	A	20090520

L3 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Method for judging quality of lithium nickel composite oxide and cathode using lithium nickel composite oxide

PATENT NO.	KIND	DATE
------------	------	------

PI	US 20090120163	A1	20090514
	JP 2009123448	A	20090604
	KR 2009049535	A	20090518
	CN 101435806	A	20090520

L3 ANSWER 3 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Cathode materials for Li-ion batteries

PATENT NO.	KIND	DATE
------------	------	------

PI	US 7494744	B2	20090224
	US 20070212606	A1	20070913
	CA 2636380	A1	20070913
	WO 2007103179	A2	20070913
	WO 2007103179	A3	20080821
	EP 1992027	A2	20081119
	JP 2009523309	T	20090618
	IN 2008CN03555	A	20090313
	KR 2008077412	A	20080822
	CN 101401230	A	20090401
	US 20090146102	A1	20090611
	US 20090146103	A1	20090611
	US 20090145536	A1	20090611

L3 ANSWER 4 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE
------------	------	------

PI	US 20090035660	A1	20090205
	JP 2009037740	A	20090219
	KR 2009013025	A	20090204

L3 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Olivine-type cathode materials for secondary batteries

PATENT NO.	KIND	DATE
------------	------	------

PI	KR 2009008870	A	20090122
	KR 894608	B1	20090424

L3 ANSWER 6 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Positive electrode active material for non-aqueous electrolyte secondary battery and method for producing the same, and non-aqueous electrolyte secondary battery using positive electrode active material

	PATENT NO.	KIND	DATE
	-----	----	-----
PI	US 20080118829	A1	20080522
	JP 2008152923	A	20080703
	CN 101188295	A	20080528
L3	ANSWER 7 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN		
TI	Electrode for lithium secondary batteries having enhanced cycle performance		
	PATENT NO.	KIND	DATE
	-----	----	-----
PI	US 20080113266	A1	20080515
	KR 2008043087	A	20080516
	KR 875126	B1	20081222
L3	ANSWER 8 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN		
TI	Nonaqueous electrolyte and lithium secondary battery containing this electrolyte		
	PATENT NO.	KIND	DATE
	-----	----	-----
PI	KR 2007083278	A	20070824
L3	ANSWER 9 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN		
TI	Nonaqueous electrolyte containing lactone compound used in secondary lithium battery		
	PATENT NO.	KIND	DATE
	-----	----	-----
PI	KR 750246	B1	20070817
L3	ANSWER 10 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN		
TI	Anion receptor comprising aromatic amines substituted with electron withdrawing groups and electrolyte using the same for alkali metal batteries		
	PATENT NO.	KIND	DATE
	-----	----	-----
PI	WO 2007126262	A1	20071108
L3	ANSWER 11 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN		
TI	Cathode material for lithium ion battery applications		
	PATENT NO.	KIND	DATE
	-----	----	-----
PI	WO 2007103179	A2	20070913
	WO 2007103179	A3	20080821
	US 7494744	B2	20090224
	US 20070212606	A1	20070913
	CA 2636380	A1	20070913
	EP 1992027	A2	20081119
	JP 2009523309	T	20090618
	IN 2008CN03555	A	20090313
	KR 2008077412	A	20080822
	CN 101401230	A	20090401
L3	ANSWER 12 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN		
TI	High-performance composite electrode materials for lithium batteries		
	PATENT NO.	KIND	DATE
	-----	----	-----
PI	US 20070057228	A1	20070315
	WO 2007035584	A2	20070329
	WO 2007035584	A3	20071025
L3	ANSWER 13 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN		

TI Nonaqueous electrolyte battery, battery pack and cathode active material

PATENT NO.	KIND	DATE
-----	----	-----
US 20060134520	A1	20060622
JP 2006173049	A	20060629
JP 4213659	B2	20090121

L3 ANSWER 14 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Effect of (Al, Mg) substitution in LiNiO₂ electrode for lithium batteries

L3 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Preparation of active electrode materials for anode of lithium ion battery

PATENT NO.	KIND	DATE
-----	----	-----
CN 1665053	A	20050907

L3 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Lithium nickel mixed oxide cathode active mass and its manufacture for secondary nonaqueous electrolyte battery

PATENT NO.	KIND	DATE
-----	----	-----
JP 2005302507	A	20051027

L3 ANSWER 17 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Lithium ion secondary battery

PATENT NO.	KIND	DATE
-----	----	-----
US 20050142440	A1	20050630
JP 2005197002	A	20050721
FR 2864708	A1	20050701
FR 2864708	B1	20081107

L3 ANSWER 18 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Method for regulating terminal voltage of cathode during overdischarge and cathode active material for lithium secondary battery

PATENT NO.	KIND	DATE
-----	----	-----
US 20050118496	A1	20050602
KR 2003076153	A	20030926
WO 2003081697	A1	20031002
US 20040157124	A1	20040812
US 7282300	B2	20071016

L3 ANSWER 19 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Method for regulating terminal voltage of cathode during overdischarge and cathode active material for lithium secondary battery

PATENT NO.	KIND	DATE
-----	----	-----
WO 2005031892	A2	20050407
WO 2005031892	A3	20050602
KR 2005030588	A	20050330
CN 1745490	A	20060308
CN 100344018	C	20071017
JP 2006514776	T	20060511
EP 1665420	A2	20060607
TW 263369	B	20061001
IN 2005DN03223	A	20090403

L3 ANSWER 20 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Effect of Magnesium Substitution in Lithium Nickel Oxide

L3 ANSWER 21 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Secondary lithium batteries showing safety even in overcharging

PATENT NO.	KIND	DATE
JP 2004047180	A	20040212

L3 ANSWER 22 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Nonaqueous electrolyte secondary battery using cobalt-lithium-manganese-nickel oxide as active mass

PATENT NO.	KIND	DATE
JP 2003346797	A	20031205

L3 ANSWER 23 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Lithium secondary battery comprising overdischarge-preventing agent

PATENT NO.	KIND	DATE
WO 2003081697	A1	20031002
KR 2003076153	A	20030926
CN 1518777	A	20040804
CN 1234179	C	20051228
EP 1490916	A1	20041229
JP 2005521220	T	20050714
US 20040157124	A1	20040812
US 7282300	B2	20071016
US 20050118496	A1	20050602

L3 ANSWER 24 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE
US 20030180618	A1	20030925
JP 2003282055	A	20031003
JP 4307005	B2	20090805

L3 ANSWER 25 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Surface/chemically modified oxide cathodes for lithium-ion batteries

PATENT NO.	KIND	DATE
US 20030108790	A1	20030612
WO 2003049218	A1	20030612
AU 2002351231	A1	20030617

L3 ANSWER 26 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Layered Li(Ni,M)O₂ systems as the cathode material in lithium-ion batteries

L3 ANSWER 27 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Method of preparation of a cathode active material for lithium secondary battery

PATENT NO.	KIND	DATE
WO 2002073717	A1	20020919
KR 2002072833	A	20020919
EP 1281207	A1	20030205
JP 2004519825	T	20040702

JP 3860542	B2	20061220
CN 1222062	C	20051005
TW 567632	B	20031221
US 20030108794	A1	20030612
US 20070122338	A1	20070531

L3 ANSWER 28 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Solid electrolyte cell

PATENT NO.	KIND	DATE
-----	----	-----
PI EP 1195826	A2	20020410
EP 1195826	A3	20031126
JP 2002117844	A	20020419
JP 3982165	B2	20070926
US 20020094481	A1	20020718
US 6720113	B2	20040413
TW 523952	B	20030311
CN 1349273	A	20020515
CN 1181590	C	20041222
CA 2358294	A1	20020405
MX 2001009973	A	20030820
KR 826814	B1	20080502

L3 ANSWER 29 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Doped lithium nickel cobalt mixed oxides for the positive electrode in lithium ion batteries

L3 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE
-----	----	-----
PI EP 1180809	A2	20020220
EP 1180809	A3	20070509
JP 2002063940	A	20020228
TW 511314	B	20021121
CA 2354754	A1	20020214
US 20020076612	A1	20020620
US 6677080	B2	20040113
CN 1341975	A	20020327
CN 1220292	C	20050921
KR 832251	B1	20080528

L3 ANSWER 31 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Lithium secondary battery

PATENT NO.	KIND	DATE
-----	----	-----
PI EP 1168472	A1	20020102
JP 2002083597	A	20020322
CN 1331498	A	20020116
CN 1167156	C	20040915
US 20020015890	A1	20020207
US 6537702	B2	20030325

L3 ANSWER 32 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Synthesis and properties of LiGaxMgyNil-x-yO2 as cathode material for lithium ion batteries

L3 ANSWER 33 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN

TI Lithium nickel oxide cathode active mass for secondary lithium batteries and the batteries

PATENT NO.	KIND	DATE
-----	----	-----

PI JP 2000348724 A 20001215

L3 ANSWER 34 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Mixtures of lithium manganese oxide spinel as cathode active material

PATENT NO.	KIND	DATE
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PI	US 6159636	A	20001212
	US 5753202	A	19980519

L3 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Nonaqueous lithium electrolyte secondary battery

PATENT NO.	KIND	DATE
------------	------	------

PI	EP 1043794	A2	20001011
	EP 1043794	A3	20021218
	US 6165647	A	20001226
	CN 1270424	A	20001018
	CN 1162934	C	20040818

L3 ANSWER 36 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synthesis and characterization of new LiNi_{1-y}MgyO₂ positive electrode materials for lithium-ion batteries

L3 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Recent results on electrode materials for rechargeable Li-ion batteries

L3 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI An overview of the Li(Ni,M)O₂ systems: syntheses, structures and properties

L3 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Effect of addition of a foreign element to LiNiO₂ by complex polymerized method on its electrochemical properties

L3 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Lithium secondary batteries and their cathode active materials

PATENT NO.	KIND	DATE
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PI	JP 10162830	A	19980619
	JP 3355102	B2	20021209

L3 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Manufacture of lithium nickelate cathode materials for lithium batteries

PATENT NO.	KIND	DATE
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PI	JP 10134811	A	19980522
----	-------------	---	----------

L3 ANSWER 42 OF 42 CAPLUS COPYRIGHT 2009 ACS on STN
TI Lithium rechargeable electrode for electrochemical generator

PATENT NO.	KIND	DATE
------------	------	------

PI	WO 9802928	A1	19980122
	FR 2751135	A1	19980116
	US 6071645	A	20000606
	CA 2228671	A1	19980122
	EP 858677	A1	19980819
	EP 858677	B1	20011205
	JP 11513181	T	19991109

```
=> s 13 and coprecipitation
      6566 COPRECIPITATION
        3 COPRECIPITATIONS
      6569 COPRECIPITATION
          (COPRECIPITATION OR COPRECIPITATIONS)
      18670 COPPTN
        63 COPPTNS
      18692 COPPTN
          (COPPTN OR COPPTNS)
      20181 COPRECIPITATION
          (COPRECIPITATION OR COPPTN)
L4          1 L3 AND COPRECIPITATION
```

```
=> d 14
```

```
L4      ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2009 ACS on STN
AN      2000:420270  CAPLUS
DN      133:61233
TI      Synthesis and characterization of new LiNi1-yMgyO2 positive electrode
        materials for lithium-ion batteries
AU      Pouillier, C.; Croguennec, L.; Biensan, Ph.; Willmann, P.; Delmas, C.
CS      Institut de Chimie de la Matiere Condensee de Bordeaux-CNRS and Ecole
        Nationale Supérieure de Chimie et Physique de Bordeaux, Pessac, 33608, Fr.
SO      Journal of the Electrochemical Society (2000), 147(6), 2061-2069
        CODEN: JESOAN; ISSN: 0013-4651
PB      Electrochemical Society
DT      Journal
LA      English
OSC.G   70      THERE ARE 70 CAPLUS RECORDS THAT CITE THIS RECORD (71 CITINGS)
RE.CNT  65      THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD
                ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

```
=> FIL STNGUIDE
COST IN U.S. DOLLARS          SINCE FILE          TOTAL
                                ENTRY          SESSION
FULL ESTIMATED COST          63.22          86.76
```

```
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```
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```
=>
Connecting via Winsock to STN
```

```
Welcome to STN International!  Enter x:X
```

```
LOGINID:SSPTAZPB1745
```

```
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2
```

```
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```

NEWS 1 Web Page for STN Seminar Schedule - N. America
 NEWS 2 AUG 10 Time limit for inactive STN sessions doubles to 40 minutes
 NEWS 3 AUG 18 COMPENDEX indexing changed for the Corporate Source (CS) field
 NEWS 4 AUG 24 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
 NEWS 5 AUG 24 CA/CAPLUS enhanced with legal status information for U.S. patents
 NEWS 6 SEP 09 50 Millionth Unique Chemical Substance Recorded in CAS REGISTRY
 NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM thesaurus
 NEWS 8 OCT 21 Derwent World Patents Index Coverage of Indian and Taiwanese Content Expanded
 NEWS 9 OCT 21 Derwent World Patents Index enhanced with human translated claims for Chinese Applications and Utility Models
 NEWS 10 NOV 23 Addition of SCAN format to selected STN databases
 NEWS 11 NOV 23 Annual Reload of IFI Databases
 NEWS 12 DEC 01 FRFULL Content and Search Enhancements
 NEWS 13 DEC 01 DGENE, USGENE, and PCTGEN: new percent identity feature for sorting BLAST answer sets
 NEWS 14 DEC 02 Derwent World Patent Index: Japanese FI-TERM thesaurus added
 NEWS 15 DEC 02 PCTGEN enhanced with patent family and legal status display data from INPADOCDB
 NEWS 16 DEC 02 USGENE: Enhanced coverage of bibliographic and sequence information
 NEWS 17 DEC 21 New Indicator Identifies Multiple Basic Patent Records Containing Equivalent Chemical Indexing in CA/CAPLUS
 NEWS 18 JAN 12 Match STN Content and Features to Your Information Needs, Quickly and Conveniently
 NEWS 19 JAN 25 Annual Reload of MEDLINE database
 NEWS 20 FEB 16 STN Express Maintenance Release, Version 8.4.2, Is Now Available for Download
 NEWS 21 FEB 16 Derwent World Patents Index (DWPI) Revises Indexing of Author Abstracts
 NEWS 22 FEB 16 New FASTA Display Formats Added to USGENE and PCTGEN
 NEWS 23 FEB 16 INPADOCDB and INPAFAMDB Enriched with New Content and Features
 NEWS 24 FEB 16 INSPEC Adding Its Own IPC codes and Author's E-mail Addresses

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
 AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:22:13 ON 17 FEB 2010

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 13:22:23 ON 17 FEB 2010

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STRUCTURE FILE UPDATES: 15 FEB 2010 HIGHEST RN 1206588-85-3

DICTIONARY FILE UPDATES: 15 FEB 2010 HIGHEST RN 1206588-85-3

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<http://www.cas.org/support/stngen/stdoc/properties.html>

=> s (1-1.05)/li and ((0.85-0.995)/Co or (0.85-0.995)/Ni) and ((0.005-0.1)/Mg or (0.005-0.1)/Ti or (0.005-0.1)/Zn) and 2/O

119225 (1-1.05)/LI

4183 (0.85-0.995)/CO

5347 (0.85-0.995)/NI

12278 (0.005-0.1)/MG

9675 (0.005-0.1)/TI

10308 (0.005-0.1)/ZN

10193967 2/O

L1 408 (1-1.05)/LI AND ((0.85-0.995)/CO OR (0.85-0.995)/NI) AND ((0.005-0.1)/MG OR (0.005-0.1)/TI OR (0.005-0.1)/ZN) AND 2/O

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	40.46	40.68

FILE 'CAPLUS' ENTERED AT 13:24:40 ON 17 FEB 2010

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FILE COVERS 1907 - 17 Feb 2010 VOL 152 ISS 8
FILE LAST UPDATED: 16 Feb 2010 (20100216/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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=> s l1 and battery
      325 L1
      167646 BATTERY
      129579 BATTERIES
      182530 BATTERY
      (BATTERY OR BATTERIES)
L2      308 L1 AND BATTERY
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=> S L2 AND PY<=2004
      25157325 PY<=2004
L3      153 L2 AND PY<=2004
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=> S L3 AND (PATENT)/DT
      7066938 (PATENT)/DT
L4      116 L3 AND (PATENT)/DT
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=> d l4 ti pn
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L4 ANSWER 1 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active material and nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
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PI	JP 4325112	B2	20090902	<--
	JP 2002203553	A	20020719	
	WO 2002054512	A1	20020711	<--
	TW 533612	B	20030521	<--
	EP 1347524	A1	20030924	<--
	CN 1619866	A	20050525	
	CN 1298066	C	20070131	
	CN 1638174	A	20050713	
	CN 100382364	C	20080416	
	CN 1248342	C	20060329	
	KR 882144	B1	20090206	
	US 20030134200	A1	20030717	<--
	US 20060093914	A1	20060504	
	KR 2008100500	A	20081118	
	KR 915795	B1	20090908	

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L4 ANSWER 1 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI	Cathode active material and nonaqueous electrolyte secondary battery			
	PATENT NO.	KIND	DATE	
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PI	JP 4325112	B2	20090902	<--
	JP 2002203553	A	20020719	
	WO 2002054512	A1	20020711	<--
	TW 533612	B	20030521	<--
	EP 1347524	A1	20030924	<--
	CN 1619866	A	20050525	
	CN 1298066	C	20070131	
	CN 1638174	A	20050713	
	CN 100382364	C	20080416	
	CN 1248342	C	20060329	
	KR 882144	B1	20090206	
	US 20030134200	A1	20030717	<--
	US 20060093914	A1	20060504	
	KR 2008100500	A	20081118	
	KR 915795	B1	20090908	
L4	ANSWER 2 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Synthesis of doped lithium nickelate for lithium battery			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	CN 1540782	A	20041027	<--
L4	ANSWER 3 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Method for regulating terminal voltage of cathode during overdischarge and cathode active material for lithium secondary battery			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	US 20050118496	A1	20050602	
	KR 2003076153	A	20030926	<--
	WO 2003081697	A1	20031002	<--
	US 20040157124	A1	20040812	<--
	US 7282300	B2	20071016	
L4	ANSWER 4 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Nonaqueous electrolyte secondary battery and charge/discharge system thereof			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	WO 2004102701	A1	20041125	<--
	JP 2004342500	A	20041202	<--
	CN 1735985	A	20060215	
	CN 100373663	C	20080305	
	EP 1655793	A1	20060510	
	US 20060194109	A1	20060831	
	KR 790270	B1	20080102	
L4	ANSWER 5 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Secondary nonaqueous electrolyte battery			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	JP 2004319268	A	20041111	<--
L4	ANSWER 6 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Process for producing lithium composite oxide particles for lithium secondary battery cathodes			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	US 20040175618	A1	20040909	<--

US 7510805	B2	20090331	
JP 2004265806	A	20040924	<--
US 20090075175	A1	20090319	

L4 ANSWER 7 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Cathode active material and nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE
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PI	JP 2004235144	A	20040819	<--
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L4 ANSWER 8 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE
-----	----	-----

PI	WO 2004070863	A1	20040819	<--
	JP 2005050779	A	20050224	
	JP 4307962	B2	20090805	
	EP 1598884	A1	20051123	
	CN 1771619	A	20060510	
	CN 100342571	C	20071010	
	US 20060078795	A1	20060413	
	US 20090208846	A1	20090820	

L4 ANSWER 9 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Lithium ion secondary battery

PATENT NO.	KIND	DATE
-----	----	-----

PI	US 20040157125	A1	20040812	<--
	US 7462421	B2	20081209	
	JP 2004265863	A	20040924	<--
	KR 2004073350	A	20040819	<--
	CN 1521875	A	20040818	<--
	CN 1248340	C	20060329	

L4 ANSWER 10 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI A highly safe battery pack for lithium ion secondary battery

PATENT NO.	KIND	DATE
-----	----	-----

PI	US 20040146775	A1	20040729	<--
	US 7354677	B2	20080408	
	JP 2004228045	A	20040812	<--

L4 ANSWER 11 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Method of producing cathode active material for nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE
-----	----	-----

PI	US 20040142241	A1	20040722	<--
	US 7157186	B2	20070102	
	JP 2004220785	A	20040805	<--
	JP 4274801	B2	20090610	
	CN 1518142	A	20040804	<--
	CN 1258240	C	20060531	

L4 ANSWER 12 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Cathode active material for nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE
-----	----	-----

PI	US 20040142240	A1	20040722	<--
----	----------------	----	----------	-----

US 7381497	B2	20080603	
JP 2004220952	A	20040805	<--
JP 4271448	B2	20090603	
CN 1518145	A	20040804	<--
CN 1276532	C	20060920	

L4 ANSWER 13 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Nonaqueous electrolyte rechargeable battery

PATENT NO.	KIND	DATE
-----	----	-----

PI US 20040126661	A1	20040701	<--
US 7255963	B2	20070814	
JP 2004207120	A	20040722	<--
JP 3844733	B2	20061115	

L4 ANSWER 14 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Cathode active mass for secondary nonaqueous electrolyte battery
, its manufacture, and the battery

PATENT NO.	KIND	DATE
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PI JP 2004119172	A	20040415	<--
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L4 ANSWER 15 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Cathode material for secondary lithium battery and its
manufacture

PATENT NO.	KIND	DATE
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PI WO 2004030126	A1	20040408	<--
CN 1685543	A	20051019	
CN 100517818	C	20090722	
JP 4221371	B2	20090212	
US 20050250013	A1	20051110	
US 7504180	B2	20090317	

L4 ANSWER 16 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Manufacture of cobalt oxide for cathode active mass of secondary
nonaqueous electrolyte battery, the cathode active mass, and the
battery

PATENT NO.	KIND	DATE
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PI JP 2004079386	A	20040311	<--
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L4 ANSWER 17 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Secondary lithium batteries showing safety even in overcharging

PATENT NO.	KIND	DATE
-----	----	-----

PI JP 2004047180	A	20040212	<--
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L4 ANSWER 18 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Nonaqueous-electrolyte battery with cathode containing plural
lithium mixed oxides

PATENT NO.	KIND	DATE
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PI JP 2004031165	A	20040129	<--
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L4 ANSWER 19 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Secondary lithium batteries with excellent rate performance and
charge-discharge performance

PATENT NO.	KIND	DATE
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PI JP 2004030937	A	20040129	<--
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L4 ANSWER 20 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Anode for lithium ion secondary battery

PATENT NO.	KIND	DATE	
US 20040013942	A1	20040122	<--
US 7144659	B2	20061205	
JP 2004095529	A	20040325	<--
JP 4313096	B2	20090812	
KR 2004005605	A	20040116	<--
CN 1472832	A	20040204	<--

L4 ANSWER 21 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Manufacture of cobalt compound oxide particles and cobalt oxide particles for manufacture of nonaqueous-electrolyte secondary battery cathodes

PATENT NO.	KIND	DATE	
JP 2004002066	A	20040108	<--

L4 ANSWER 22 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Nonaqueous electrolyte secondary battery using cobalt-lithium-manganese-nickel oxide as active mass

PATENT NO.	KIND	DATE	
JP 2003346797	A	20031205	<--

L4 ANSWER 23 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Cathode active material and its production method for nonaqueous electrolyte secondary battery having excellent storage stability

PATENT NO.	KIND	DATE	
JP 2003331843	A	20031121	<--

L4 ANSWER 24 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Nonaqueous electrolyte secondary lithium ion batteries with high discharge capacity and charge-discharge efficiency

PATENT NO.	KIND	DATE	
JP 2003303592	A	20031024	<--

L4 ANSWER 25 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Lithium secondary battery comprising overdischarge-preventing agent

PATENT NO.	KIND	DATE	
WO 2003081697	A1	20031002	<--
KR 2003076153	A	20030926	<--
CN 1518777	A	20040804	<--
CN 1234179	C	20051228	
EP 1490916	A1	20041229	<--
JP 2005521220	T	20050714	
US 20040157124	A1	20040812	<--
US 7282300	B2	20071016	
US 20050118496	A1	20050602	

L4 ANSWER 26 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE	
US 20030180618	A1	20030925	<--
JP 2003282055	A	20031003	<--
JP 4307005	B2	20090805	

L4	ANSWER 27 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Secondary nonaqueous electrolyte battery			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	JP 2003242982	A	20030829	<--
L4	ANSWER 28 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Lithium secondary battery containing lithium cobalt titanium oxide as positive electrode active substance			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	JP 2003217659	A	20030731	<--
	JP 4190188	B2	20081203	
L4	ANSWER 29 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Cathode active material for lithium ion secondary battery			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	EP 1321994	A2	20030625	<--
	EP 1321994	A3	20070822	
	JP 2003187796	A	20030704	<--
	JP 4055414	B2	20080305	
	JP 2004014296	A	20040115	<--
	US 20030124424	A1	20030703	<--
	US 7026068	B2	20060411	
	US 20050271945	A1	20051208	
	US 20060093549	A1	20060504	
	US 7459238	B2	20081202	
L4	ANSWER 30 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Surface/chemically modified oxide cathodes for lithium-ion batteries			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	US 20030108790	A1	20030612	<--
	WO 2003049218	A1	20030612	<--
	AU 2002351231	A1	20030617	<--
L4	ANSWER 31 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Secondary lithium battery			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	WO 2003049216	A1	20030612	<--
	CN 1592978	A	20050309	
	CN 1319197	C	20070530	
	JP 4150343	B2	20080917	
	TW 580777	B	20040321	<--
	US 20040048158	A1	20040311	<--
	US 7179565	B2	20070220	
L4	ANSWER 32 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Method for fabrication of nonaqueous electrolyte secondary battery			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	EP 1317008	A2	20030604	<--
	EP 1317008	A3	20040204	
	EP 1317008	B1	20080917	
	TW 565961	B	20031211	<--
	JP 2003229129	A	20030815	<--
	JP 4111806	B2	20080702	
	US 20030104279	A1	20030605	<--

US 6919144	B2	20050719	
CN 1421952	A	20030604	<--
CN 100454652	C	20090121	
KR 916088	B1	20090908	
HK 1054278	A1	20090724	

L4 ANSWER 33 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Battery structures, self-organizing structures and related methods

	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	US 20030099884	A1	20030529	<--
	US 7579112	B2	20090825	
	US 20030082446	A1	20030501	<--
	US 7553584	B2	20090630	
	US 20040018431	A1	20040129	<--
	US 7387851	B2	20080617	
	US 20080213662	A1	20080904	
	US 20080311470	A1	20081218	
	US 20100003603	A1	20100107	

L4 ANSWER 34 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Secondary lithium battery

	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	WO 2003038931	A1	20030508	<--
	EP 1439591	A1	20040721	<--
	CN 1541429	A	20041027	<--
	CN 1327551	C	20070718	
	JP 2003203634	A	20030718	<--
	JP 3654592	B2	20050602	
	US 20040072073	A1	20040415	<--
	US 7150940	B2	20061219	

L4 ANSWER 35 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Multi-doped nickel oxide cathode material

	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	US 20030047717	A1	20030313	<--

L4 ANSWER 36 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Battery

	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	WO 2003019713	A1	20030306	<--
	EP 1443584	A1	20040804	<--
	CN 1557036	A	20041222	<--
	CN 1314159	C	20070502	
	CN 1770542	A	20060510	
	CN 100448095	C	20081231	
	CN 1770543	A	20060510	
	CN 100446336	C	20081224	
	KR 2010004115	A	20100112	
	US 20040234853	A1	20041125	<--
	US 7510803	B2	20090331	

L4 ANSWER 37 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Battery structures, self-organizing structures, and related methods

	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	WO 2003012908	A2	20030213	<--

WO	2003012908	A9	20040325	
US	20030082446	A1	20030501	<--
US	7553584	B2	20090630	
CA	2455819	A1	20030213	<--
AU	2002330924	A1	20030217	<--
EP	1433217	A2	20040630	<--
JP	2005525674	T	20050825	
CN	1864298	A	20061115	
KR	2009092348	A	20090831	
IN	2004KN00118	A	20060407	
US	20080213662	A1	20080904	

L4 ANSWER 38 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Production of lithium nickel manganese compound oxides for secondary lithium battery cathodes by firing their raw material mixtures

PATENT NO.	KIND	DATE
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PI	JP 2003034538	A	20030207	<--
	JP 4092950	B2	20080528	
	JP 2007238437	A	20070920	

L4 ANSWER 39 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Magnesium-doped cobalt oxide for preparation of cathode-active materials for nonaqueous-electrolyte secondary lithium batteries

PATENT NO.	KIND	DATE
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PI	EP 1281673	A1	20030205	<--
	EP 1281673	B1	20090610	
	US 20030049534	A1	20030313	<--
	US 6998071	B2	20060214	
	JP 2004051471	A	20040219	<--
	JP 4305613	B2	20090729	
	US 20050142445	A1	20050630	
	US 7112291	B2	20060926	
	US 20060138390	A1	20060629	
	US 7192539	B2	20070320	
	JP 2009120480	A	20090604	

L4 ANSWER 40 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Production of layered lithium nickel manganese compound oxide powder with high bulk density for secondary lithium battery cathodes

PATENT NO.	KIND	DATE
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PI	JP 2003034537	A	20030207	<--
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L4 ANSWER 41 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Cathode active material containing lithium cobalt mixed oxide sulfide for lithium ion secondary battery

PATENT NO.	KIND	DATE
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PI	JP 2003022807	A	20030124	<--
	JP 4240853	B2	20090318	

L4 ANSWER 42 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Cathode active mass containing lithium cobalt mixed oxide sulfide for secondary lithium ion battery

PATENT NO.	KIND	DATE
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PI	JP 2003022806	A	20030124	<--
	JP 4168609	B2	20081022	

L4 ANSWER 43 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI	Cathode active mass containing lithium cobalt mixed oxide sulfide for secondary lithium ion battery			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	JP 2003022805	A	20030124	<--
	JP 4168608	B2	20081022	
L4	ANSWER 44 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Gradient cathode material for lithium rechargeable batteries			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	US 20020192552	A1	20021219	<--
	US 6921609	B2	20050726	
	US 20020192556	A1	20021219	<--
	US 6855461	B2	20050215	
	TW 550844	B	20030901	<--
	WO 2002103823	A2	20021227	<--
	WO 2002103823	A3	20040115	
	WO 2002103824	A2	20021227	<--
	WO 2002103824	A3	20040422	
	AU 2002309278	A1	20030102	<--
	AU 2002309279	A1	20030102	<--
	EP 1405358	A2	20040407	<--
	EP 1433213	A2	20040630	<--
	JP 2004531034	T	20041007	<--
	JP 2004533104	T	20041028	<--
L4	ANSWER 45 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Multi-salt electrolyte for electrochemical applications			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	US 20020192546	A1	20021219	<--
	WO 2002101870	A1	20021219	<--
	AU 2002314920	A1	20021223	<--
L4	ANSWER 46 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Lithium cobalt titanium mixed oxide halide cathode active mass and its manufacture for secondary lithium ion battery			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	JP 2002352802	A	20021206	<--
	JP 3695366	B2	20050914	
L4	ANSWER 47 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Secondary nonaqueous-electrolyte battery with cathode containing two kinds of lithium mixed oxides			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	JP 2002319398	A	20021031	<--
L4	ANSWER 48 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Cathode active material composition for rechargeable lithium batteries			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	US 20020142225	A1	20021003	<--
	US 7507501	B2	20090324	
	KR 2002077554	A	20021012	<--
	JP 2002358967	A	20021213	<--
	JP 4369645	B2	20091125	
	CN 1225045	C	20051026	

L4	ANSWER 49 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Cathode active mass and battery thereof			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	WO 2002073719	A1	20020919	<--
	JP 2002270176	A	20020920	<--
	EP 1369940	A1	20031210	<--
	US 20040096742	A1	20040520	<--
L4	ANSWER 50 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Method of preparation of a cathode active material for lithium secondary battery			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	WO 2002073717	A1	20020919	<--
	KR 2002072833	A	20020919	<--
	EP 1281207	A1	20030205	<--
	JP 2004519825	T	20040702	<--
	JP 3860542	B2	20061220	
	CN 1222062	C	20051005	
	TW 567632	B	20031221	<--
	US 20030108794	A1	20030612	<--
	US 20070122338	A1	20070531	
L4	ANSWER 51 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Lithium secondary battery			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	EP 1237213	A2	20020904	<--
	EP 1237213	A3	20051123	
	JP 2002251996	A	20020906	<--
	TW 543227	B	20030721	<--
	US 20020164528	A1	20021107	<--
	US 6818351	B2	20041116	
	KR 794051	B1	20080110	
	CN 1372341	A	20021002	<--
	CN 1238917	C	20060125	
	HK 1049917	A1	20060623	
L4	ANSWER 52 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Cathode active material for secondary lithium ion battery and its manufacture			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	JP 2002216763	A	20020802	<--
	JP 3695365	B2	20050914	
L4	ANSWER 53 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Cathode active material and nonaqueous electrolyte secondary battery			
	PATENT NO.	KIND	DATE	
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PI	WO 2002054512	A1	20020711	<--
	JP 2002203556	A	20020719	<--
	JP 2002203558	A	20020719	<--
	JP 4325112	B2	20090902	<--
	JP 2002203553	A	20020719	
	EP 1347524	A1	20030924	<--
	KR 882144	B1	20090206	
	US 20030134200	A1	20030717	<--
	US 20060093914	A1	20060504	
	KR 2008100500	A	20081118	

KR 915795 B1 20090908

L4 ANSWER 54 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Cathode active mass for secondary nonaqueous electrolyte battery and the battery

PATENT NO.	KIND	DATE
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PI	WO 2002054511	A1	20020711	<--
	CN 1185734	C	20050119	
	JP 3782058	B2	20060607	
	US 20030013017	A1	20030116	<--
	US 6991752	B2	20060131	

L4 ANSWER 55 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Anode active material for a secondary lithium battery

PATENT NO.	KIND	DATE
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PI	KR 2000073492	A	20001205	<--
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L4 ANSWER 56 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE
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PI	US 20020081495	A1	20020627	<--
	JP 2002151054	A	20020524	<--
	JP 2002246026	A	20020830	<--

L4 ANSWER 57 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Process for producing cathode active material for nonaqueous electrolyte secondary battery

PATENT NO.	KIND	DATE
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PI	EP 1211741	A2	20020605	<--
	EP 1211741	A3	20040102	
	US 20020098416	A1	20020725	<--
	US 6756154	B2	20040629	
	JP 2002231246	A	20020816	<--
	US 20040208818	A1	20041021	<--

L4 ANSWER 58 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Reticulated and controlled porosity battery structures

PATENT NO.	KIND	DATE
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PI	WO 2002043168	A2	20020530	<--
	WO 2002043168	A3	20030724	
	WO 2002043168	A9	20031204	
	CA 2426156	A1	20020530	<--
	AU 2002041629	A	20020603	<--
	EP 1352436	A2	20031015	<--
	EP 1352436	B1	20080820	
	CN 1470083	A	20040121	<--
	CN 1278441	C	20061004	
	JP 2004525481	T	20040819	<--
	CN 1901255	A	20070124	
	AT 405960	T	20080915	
	ES 2312487	T3	20090301	
	KR 912754	B1	20090818	
	JP 2006100280	A	20060413	
	JP 2007066913	A	20070315	
	US 20080213662	A1	20080904	
	KR 2008081377	A	20080909	
	KR 929452	B1	20091202	

KR 2009045431 A 20090507

L4 ANSWER 59 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Solid electrolyte cell

PATENT NO. KIND DATE

PI	EP 1195826	A2	20020410	<--
	EP 1195826	A3	20031126	
	JP 2002117844	A	20020419	<--
	JP 3982165	B2	20070926	
	US 20020094481	A1	20020718	<--
	US 6720113	B2	20040413	
	TW 523952	B	20030311	<--
	CN 1349273	A	20020515	<--
	CN 1181590	C	20041222	
	CA 2358294	A1	20020405	<--
	MX 2001009973	A	20030820	<--
	KR 826814	B1	20080502	

L4 ANSWER 60 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonaqueous electrolyte secondary battery

PATENT NO. KIND DATE

PI	EP 1180809	A2	20020220	<--
	EP 1180809	A3	20070509	
	JP 2002063940	A	20020228	<--
	TW 511314	B	20021121	<--
	CA 2354754	A1	20020214	<--
	US 20020076612	A1	20020620	<--
	US 6677080	B2	20040113	
	CN 1341975	A	20020327	<--
	CN 1220292	C	20050921	
	KR 832251	B1	20080528	

L4 ANSWER 61 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium-containing cobalt composite oxide for improving overcharge resistance and battery capacity in secondary lithium battery and its manufacturing method

PATENT NO. KIND DATE

PI	JP 2002037629	A	20020206	<--
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L4 ANSWER 62 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Lithium secondary battery

PATENT NO. KIND DATE

PI	EP 1168472	A1	20020102	<--
	JP 2002083597	A	20020322	<--
	CN 1331498	A	20020116	<--
	CN 1167156	C	20040915	
	US 20020015890	A1	20020207	<--
	US 6537702	B2	20030325	

L4 ANSWER 63 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Secondary nonaqueous electrolyte battery and its manufacture

PATENT NO. KIND DATE

PI	JP 2001351624	A	20011221	<--
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L4 ANSWER 64 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
TI Cathode active material containing lithium transition metal composite oxide for nonaqueous electrolyte secondary battery

	PATENT NO.	KIND	DATE	
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PI	EP 1154503	A1	20011114	<--
	JP 2001319652	A	20011116	<--
	TW 523956	B	20030311	<--
	US 20020037456	A1	20020328	<--
	US 6805996	B2	20041019	
	CN 1324120	A	20011128	<--
	CN 1236511	C	20060111	
	KR 811580	B1	20080310	
L4	ANSWER 65 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Nonaqueous-electrolyte battery with cathode containing lithium mixed oxide and alumina			
	PATENT NO.	KIND	DATE	
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PI	JP 2001273897	A	20011005	<--
	JP 4152056	B2	20080917	
L4	ANSWER 66 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Nonaqueous-electrolyte battery with cathode containing lithium mixed oxide			
	PATENT NO.	KIND	DATE	
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PI	JP 2001273896	A	20011005	<--
	JP 4136260	B2	20080820	
L4	ANSWER 67 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Lithium cobalt mixed oxides for cathode active materials, their manufacture, and lithium ion nonaqueous secondary batteries			
	PATENT NO.	KIND	DATE	
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PI	JP 2001223008	A	20010817	<--
	US 6582854	B1	20030624	<--
L4	ANSWER 68 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Secondary lithium batteries having improved cathodes			
	PATENT NO.	KIND	DATE	
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PI	JP 2001167763	A	20010622	<--
	JP 2006173137	A	20060629	
L4	ANSWER 69 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Secondary lithium batteries			
	PATENT NO.	KIND	DATE	
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PI	JP 2001068168	A	20010316	<--
L4	ANSWER 70 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Cathode active mass for lithium batteries, its manufacture, and the batteries			
	PATENT NO.	KIND	DATE	
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PI	JP 2001068113	A	20010316	<--
L4	ANSWER 71 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Secondary lithium batteries capable of charging and discharging at high voltage			
	PATENT NO.	KIND	DATE	
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PI	JP 2001052704	A	20010223	<--

L4	ANSWER 72 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Lithium nickel oxide cathode active mass for secondary lithium batteries and the batteries			
	PATENT NO.	KIND	DATE	
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PI	JP 2000348724	A	20001215	<--
L4	ANSWER 73 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Mixtures of lithium manganese oxide spinel as cathode active material			
	PATENT NO.	KIND	DATE	
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PI	US 6159636	A	20001212	<--
	US 5753202	A	19980519	<--
L4	ANSWER 74 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Nonaqueous lithium electrolyte secondary battery			
	PATENT NO.	KIND	DATE	
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PI	EP 1043794	A2	20001011	<--
	EP 1043794	A3	20021218	
	US 6165647	A	20001226	<--
	CN 1270424	A	20001018	<--
	CN 1162934	C	20040818	
L4	ANSWER 75 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Nonaqueous electrolyte secondary battery			
	PATENT NO.	KIND	DATE	
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PI	EP 1043793	A2	20001011	<--
	EP 1043793	A3	20021016	
	EP 1043793	B1	20080402	
	US 6303250	B1	20011016	<--
	CN 1270425	A	20001018	<--
	CN 1162935	C	20040818	
L4	ANSWER 76 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Secondary nonaqueous electrolyte lithium batteries			
	PATENT NO.	KIND	DATE	
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PI	WO 2000052773	A1	20000908	<--
	JP 2000315503	A	20001114	<--
	JP 3869605	B2	20070117	
	CA 2365562	A1	20000908	<--
	CA 2365562	C	20070710	
	EP 1174937	A1	20020123	<--
	EP 1174937	B1	20100120	
	HU 2002000246	A2	20020729	<--
	EP 1885011	A2	20080206	
	EP 1885011	A3	20080220	
	US 6746800	B1	20040608	<--
L4	ANSWER 77 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Cathode active mass for secondary lithium batteries			
	PATENT NO.	KIND	DATE	
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PI	JP 2000182618	A	20000630	<--
	KR 2000038919	A	20000705	<--
	CN 1257318	A	20000621	<--
	CN 1144305	C	20040331	
L4	ANSWER 78 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Secondary nonaqueous-electrolyte batteries with cathodes			

	containing coated lithium mixed oxides			
	PATENT NO.	KIND	DATE	
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PI	JP 2000149950	A	20000530	<--
L4	ANSWER 79 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Manufacture of cathode active mass for lithium ion batteries by controlled crystallization			
	PATENT NO.	KIND	DATE	
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PI	CN 1218304	A	19990602	<--
	CN 1085417	C	20020522	
L4	ANSWER 80 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Lithium transition metal compound for lithium secondary battery			
	PATENT NO.	KIND	DATE	
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PI	EP 973217	A2	20000119	<--
	EP 973217	A3	20000628	
	EP 973217	B1	20090527	
	JP 2000090933	A	20000331	<--
	JP 3142522	B2	20010307	
	JP 2000200607	A	20000718	<--
	US 6368750	B1	20020409	<--
	CA 2494779	A1	20000113	<--
	CA 2277231	C	20050503	
	US 20020142221	A1	20021003	<--
	US 20050118505	A1	20050602	
L4	ANSWER 81 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Cathode active mass containing lithium cobalt mixed oxide for secondary nonaqueous-electrolyte batteries and batteries using it			
	PATENT NO.	KIND	DATE	
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PI	JP 2000012022	A	20000114	<--
	JP 4240242	B2	20090318	
L4	ANSWER 82 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Solvents in manufacture of cathode active mass for lithium ion secondary batteries			
	PATENT NO.	KIND	DATE	
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PI	JP 11162464	A	19990618	<--
	JP 3411488	B2	20030603	
L4	ANSWER 83 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Active materials for nonaqueous secondary batteries, cathode plates, and nonaqueous secondary batteries			
	PATENT NO.	KIND	DATE	
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PI	JP 11135119	A	19990521	<--
	CN 1207208	A	19990203	<--
L4	ANSWER 84 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN			
TI	Cathode active mass for secondary nonaqueous electrolyte batteries and method for evaluating the active mass			
	PATENT NO.	KIND	DATE	
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PI	JP 11102704	A	19990413	<--
	JP 3508987	B2	20040322	

L4	ANSWER 85 OF 116	CAPLUS	COPYRIGHT 2010 ACS on STN	
TI	Battery cathodes and their manufacture			
	PATENT NO.	KIND	DATE	
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PI	JP 11086846	A	19990330	<--
L4	ANSWER 86 OF 116	CAPLUS	COPYRIGHT 2010 ACS on STN	
TI	Secondary lithium battery having coated mixed oxide particles as cathode active mass			
	PATENT NO.	KIND	DATE	
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PI	JP 11067209	A	19990309	<--
L4	ANSWER 87 OF 116	CAPLUS	COPYRIGHT 2010 ACS on STN	
TI	Secondary lithium batteries inhibiting lithium dendrite generation and electronic apparatus using the batteries			
	PATENT NO.	KIND	DATE	
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PI	JP 11016571	A	19990122	<--
L4	ANSWER 88 OF 116	CAPLUS	COPYRIGHT 2010 ACS on STN	
TI	Cathode active materials for lithium batteries, their manufacture, and the batteries			
	PATENT NO.	KIND	DATE	
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PI	JP 10321228	A	19981204	<--
L4	ANSWER 89 OF 116	CAPLUS	COPYRIGHT 2010 ACS on STN	
TI	Secondary lithium batteries with lithium and magnesium containing oxide cathodes			
	PATENT NO.	KIND	DATE	
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PI	JP 10241691	A	19980911	<--
	JP 3624663	B2	20050302	
L4	ANSWER 90 OF 116	CAPLUS	COPYRIGHT 2010 ACS on STN	
TI	Alkali metal secondary batteries using alkali metal nickel aluminum mixed oxide cathodes			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	JP 10208744	A	19980807	<--
L4	ANSWER 91 OF 116	CAPLUS	COPYRIGHT 2010 ACS on STN	
TI	Nonaqueous-electrolyte alkali metal secondary batteries using alkali metal nickel aluminum mixed oxide cathodes			
	PATENT NO.	KIND	DATE	
	-----	----	-----	
PI	JP 10208742	A	19980807	<--
L4	ANSWER 92 OF 116	CAPLUS	COPYRIGHT 2010 ACS on STN	
TI	Lithium secondary batteries and their cathode active materials			
	PATENT NO.	KIND	DATE	
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PI	JP 10162830	A	19980619	<--
	JP 3355102	B2	20021209	
L4	ANSWER 93 OF 116	CAPLUS	COPYRIGHT 2010 ACS on STN	
TI	Cathode active mass and its manufacture for secondary nonaqueous electrolyte batteries			
	PATENT NO.	KIND	DATE	
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PI	JP 10144315	A	19980529	<--

L4 ANSWER 94 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Manufacture of lithium nickelate cathode materials for lithium batteries

	PATENT NO.	KIND	DATE	
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PI	JP 10134811	A	19980522	<--

L4 ANSWER 95 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Lithium rechargeable electrode for electrochemical generator

	PATENT NO.	KIND	DATE	
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PI	WO 9802928	A1	19980122	<--
	FR 2751135	A1	19980116	<--
	US 6071645	A	20000606	<--
	CA 2228671	A1	19980122	<--
	EP 858677	A1	19980819	<--
	EP 858677	B1	20011205	
	JP 11513181	T	19991109	<--

L4 ANSWER 96 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Preparation of cathode active materials of lithium nickel oxide or complex oxide, and secondary nonaqueous battery using these materials

	PATENT NO.	KIND	DATE	
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PI	EP 798797	A1	19971001	<--
	EP 798797	B1	20010912	
	JP 09320584	A	19971212	<--
	JP 3507642	B2	20040315	
	JP 09320601	A	19971212	<--
	JP 3566826	B2	20040915	
	JP 09326255	A	19971216	<--
	JP 3589542	B2	20041117	
	US 5985488	A	19991116	<--

L4 ANSWER 97 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Secondary lithium batteries using lithium cobalt boron magnesium oxide cathode active masses

	PATENT NO.	KIND	DATE	
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PI	JP 09063582	A	19970307	<--

L4 ANSWER 98 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Secondary nonaqueous-electrolyte lithium battery and its cathode

	PATENT NO.	KIND	DATE	
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PI	EP 744780	A1	19961127	<--
	EP 744780	B1	20040804	
	JP 09274917	A	19971021	<--
	JP 3079033	B2	20000821	
	JP 09092285	A	19970404	<--
	JP 3260282	B2	20020225	
	US 5631105	A	19970520	<--

L4 ANSWER 99 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN
 TI Cathode active mass, their manufacture, and nonaqueous-electrolyte secondary batteries using them

	PATENT NO.	KIND	DATE	
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PI	JP 08138669	A	19960531	<--

L4 ANSWER 100 OF 116 CAPLUS COPYRIGHT 2010 ACS on STN

TI Secondary lithium batteries

PATENT NO.	KIND	DATE
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PI	WO 9617392	A1	19960606
	JP 08153541	A	19960611
	AU 9539363	A	19960619
	EP 794585	A1	19970910
	US 5804335	A	19980908
	US 5989745	A	19991123

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